

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Pd: \_\_\_\_\_

### Systems Word Problems HW #1

1. Lizbeth is visiting a farm before Halloween. She sees eighty-seven animals; some are turkeys and some are cows. She counts a total of two-hundred and fifty scary Halloween boots for all of the animals. Assuming that all turkeys need two boots and all cows need four boots, how many turkeys are on the farm? How many cows?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

2. One hundred forty-seven volunteers are traveling on a mission trip. They are traveling using five total vehicles, some buses and some cars. Each car can hold six students and each bus can hold forty-five students. How many vans are being used? How many buses?

a. Define variables that make sense for the situation.

b. Write AND SOLVE a system of linear equations. Show all work.

c. Check your answers via SUBSTITUTION and REALITY.

d. Write your final answers with LABELS.

